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MARCHANT

NON SHIFT–KEYBOARD CLEAR

(MODELS 8 AND 10 EFA)

SERVICE INSTRUCTION BOOK

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NON SHIFT-KEYBOARD CLEAR

The following Service Instructions apply to 8 and 10 Bank EFA Models only and the mechanism described and illustrated provides the optional feature of obtaining automatic keyboard clearance and no carriage shift, upon multiplier key actuation, with the Non Shift Key-87224 latched down.

GENERAL DESCRIPTION:

The complete list of parts for this optional feature is designated as Non Shift-Keyboard Clear-EFA for Field Installation-87535. The Non Shift Key-87224 in normal position provides standard EFA operation, but upon depression of 87224, it conditions for automatic keyboard clearance and disables the automatic carriage shift.

DISASSEMBLY INSTRUCTIONS:

1. Remove all machine Covers, Keyboard Cover, Control Plate Cover-Right-36758-A, Control Plate Cover-Center-36756-B, Top Plate Assembly-36930*, No. 1 Key Section-87871-A* and No. 2 Key Section-87872-A*

2. Just rearward of the Middle Dial Clear Key-87230, remove #4-48 x 1/4 x 1/16 Nut-6506, Spacer-37249 and #4-48 x 5/8 Hexagon Head Tie Bolt-5445 which spaces and ties the Control Frame-Left-36250 to the Center Frame-12805-B. This is done to facilitate the disassembly and assembly of this feature.

3. Remove the Add-Tab Interlock-77389; (refer to Design Change #287, dated January 11, 1955 which describes the introduction of 77389).

4. Remove the Reverse Setting Assembly-36495-C.

5. Remove Add Reverse Lock-36228 from Add Operating Lever Shaft Assembly-36070.

6. Unhook Spring-7611 from Spring Hook-36577, and leave other end of 7611 attached to its anchoring position on Add Operating Lever Shaft Assembly-36070.

7. Remove Add Operating Assembly-36090.

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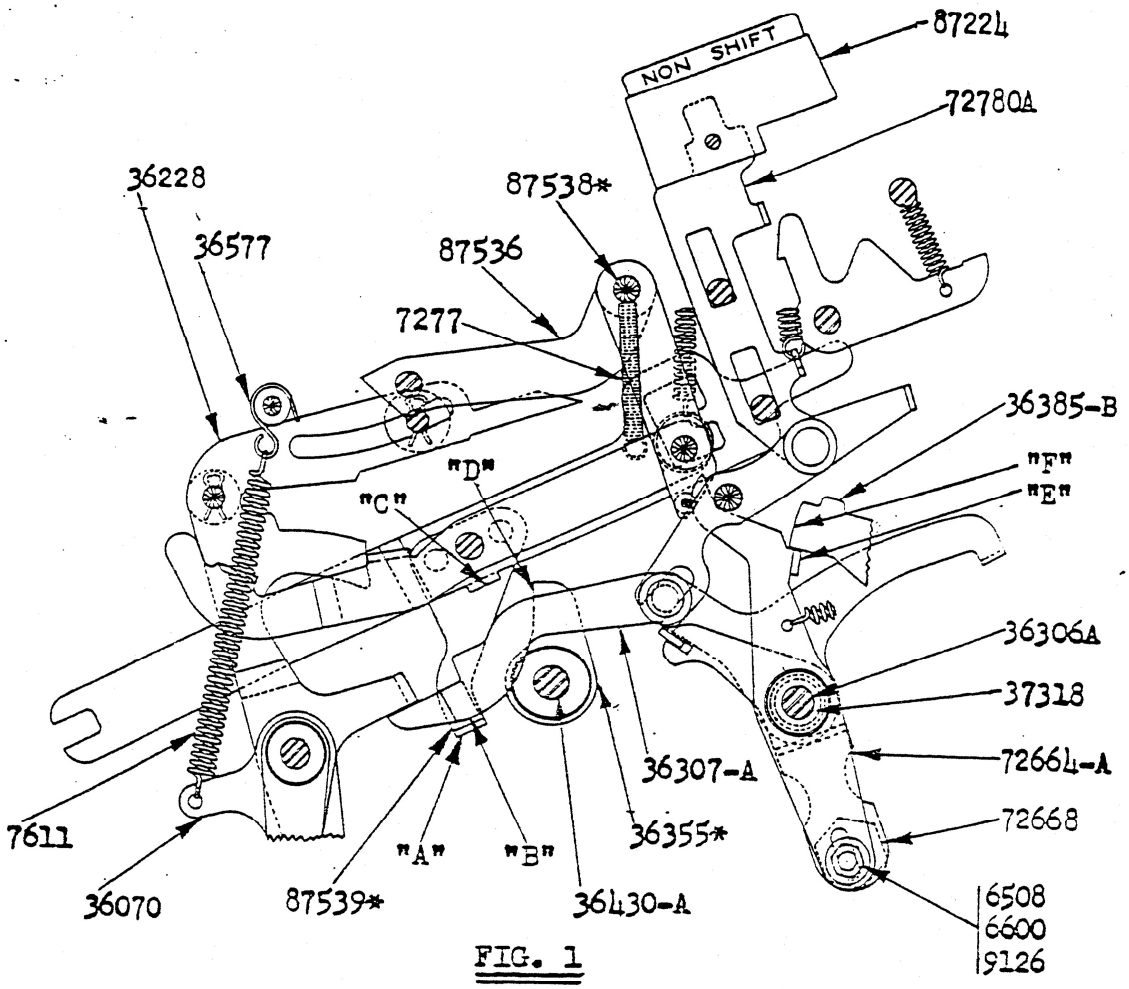

FIG. 1

ASSEMBLY INSTRUCTIONS:

1. Assemble new, special Add Operating Assembly-EFA (As Required)-87536 in place of the standard Add Operating Assembly-36090.

2. Hook Spring-7611 on Spring Hook-36577.

3. Assemble Add Reverse Lock-36228 on Add Operating Lever Assembly-36070.

4. Assemble the Reverse Setting Assembly-36495-C.

5. Assemble the new, special Add-Tab Interlock-EFA (As Required)-87543 in place of the standard Add-Tab Interlock-77389. Note that the new Interlock-87543 is similar to standard Interlock-77389, but that 87543 is offset the opposite way from 77389. This has been done to avoid interference with the new Add Operating Lever-87536.

6. Assemble Tie Bolt-5445, Spacer-37249 and Nut-6506.

NON SHIFT-KEYBOARD CLEAR

7. Check machine for proper operation per OPERATING INSTRUCTIONS as described below, para. 1, 2 and 3.

8. Assemble #1 and #2 Key Sections and all Plates and Covers removed per DISASSEMBLY INSTRUCTIONS, paragraph 1, page 1191.

OPERATING INSTRUCTIONS:

1. Upon depression and latching down of the Non Shift Key-87224, any digit setup in the Keyboard is automatically cleared and the carriage will not automatically shift from its original position, as a multiplier key actuation is completed.

2. The conditioning for disabling the automatic shift and effecting automatic keyboard clearance is accomplished by the Add Repeat Extension-87539*, which is attached to the Add Operating Lever-EFA (As Required)-87536. The ear "A" on 87539* underlies surface "B" on the Non Shift Control Lever-36307-A and upon depression of the Non Shift Key-87224, surface "B" on 36307-A contacts ear "A" on 87539* and moves the Add Operating Lever-87536 downward. As 87536 moves downward, its ear "C" lies directly in the path of surface "D" on the Keyboard Release Lever-36355* on Keyboard Clear Shaft Assembly-36430-A and clearance of the keyboard is affected in the standard manner. (Fig. 1).

3. With Non Shift Key depressed, check for proper engagement of ear "A" on Extension-87539* with surface "B" on Non Shift Control Lever-36307-A. If necessary, adjust ear "A" closer to surface "B". Also, be certain that ear "C" on Add Operating Lever-87536 is in full engagement with surface "D" on Keyboard Release Lever-36355*. Adjust, if necessary, by turning Eccentric Screw-72668. Release the Non Shift Key-87224 to normal position and depress Add Stud-87538* on Lever-87536: There should be .005 to .010 clearance between ear "E" on Non Shift Operating Bail-72664-A and surface "F" on Non Shift Latch-36385-B. To correct, adjust ear "E", as required.